



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

ARGEO PAUL CELLUCCI
Governor

JANE SWIFT
Lieutenant Governor

BOB DURAND
Secretary

LAUREN A. LISS
Commissioner

Procedures Relative To The Detection of Contaminants
During The New Source Approval Process
(Year 2000 Printing)

Effective Date: 10-20-88

Policy, SOP or Guideline #87-27

Program Applicability:

Supersedes Policy, SOP or Guidance:

Approved by: Patricia L. Deese

This policy is adopted to expand and replace Scenario III of DWS Policy 87-4, Procedures for Use of EPA's PMCLs. It provides procedures to be followed by DWS staff when chemicals with Drinking Water Standards or Guidelines are detected during the exploratory phase of the New Source Approval Process.

Policy

If during the New Source Approval process (See Procedure for New Groundwater Source Approvals; DWS Policy 86-02), one or more of the contaminants described above is detected and verified, the following process will be followed:

- A. Are contaminants detected in test well during exploration program?
 1. NO – Proceed with New Source Approval Process.
 2. YES -
 - a. Request pumping and redevelopment of test well, and
 - b. Resample using sanitary sampling protocols
- B. Do Analytical results again indicate contaminants?
 1. NO - Proceed with New Source Approval Process
 2. YES - Consider alternative sources
- C. Are alternative sources feasible?
 1. NO - Contact ORS and request evaluation of health effects of detected chemicals to determine if treatment will be necessary.
 2. YES -
 - a. Pursue New Source Approval Process for new site, and

b. Abandon old site and refer to DHW for investigation

D. Are contaminants within treatable limits?

1. NO -
 - a. Abandon source and resume search for alternatives
 - b. Refer to DHW for investigation
2. YES -
 - b. Continue below

E. Is Wellhead treatment necessary at this time?

1. NO -
 - a. Proceed with New Source Approval Process, and
 - b. Design wellhead to easily accommodate treatment in the future, and
 - c. Design monitoring program and trend analysis for early warning of need for treatment
2. YES -
 - a. Design and conduct a pumping test, and
 - b. Conduct standard pumping test water quality sampling, and
 - c. Request ORS review of pumping test results, and
 - d. Design and construct wellhead treatment facility, and
 - e. Design and implement raw water monitoring program to assure early warning of dramatic changes in raw water quality which may adversely impact treatment, and
 - f. Refer site to OSC for investigation of containment source.

Approved: 10-6-88

Effective: 10-20-88

Patricia L. Deese, P.E.

Director,

Division of Water Supply